

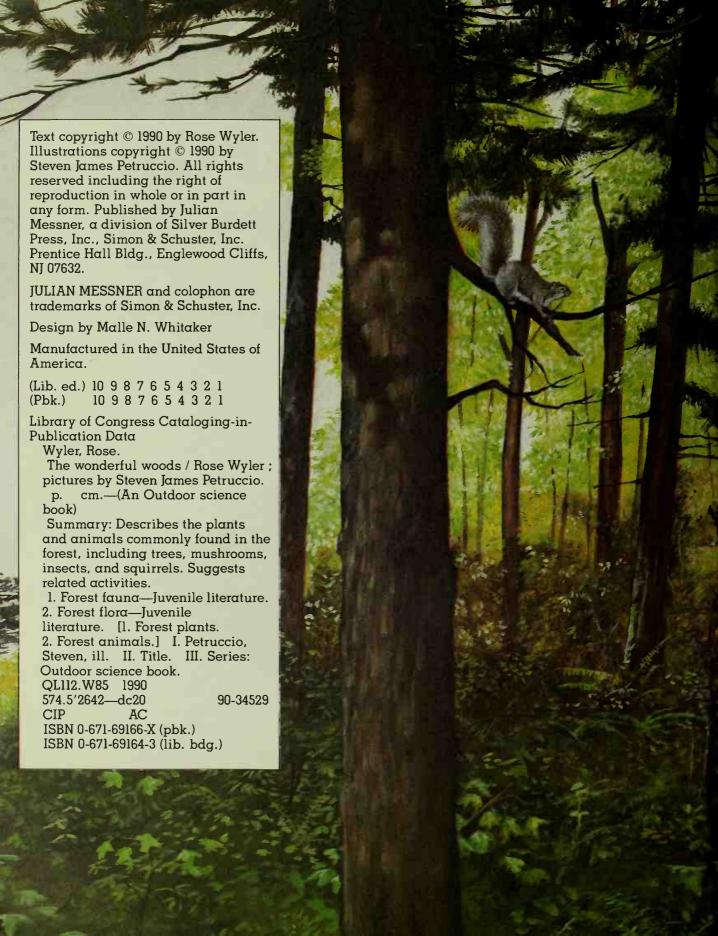


AN OUTDOOR SCIENCE BOOK

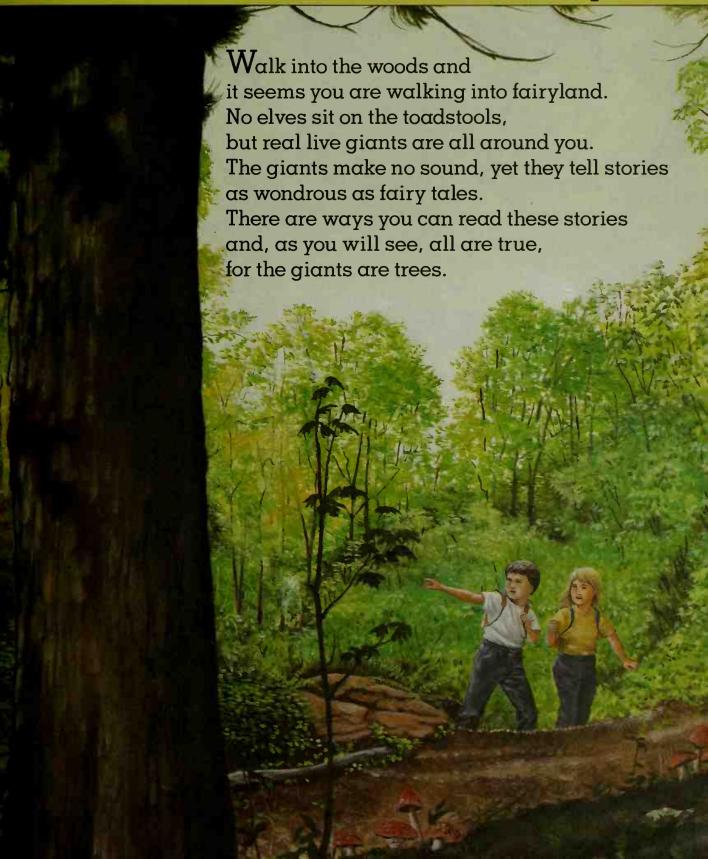
WONDERFUL WOODS

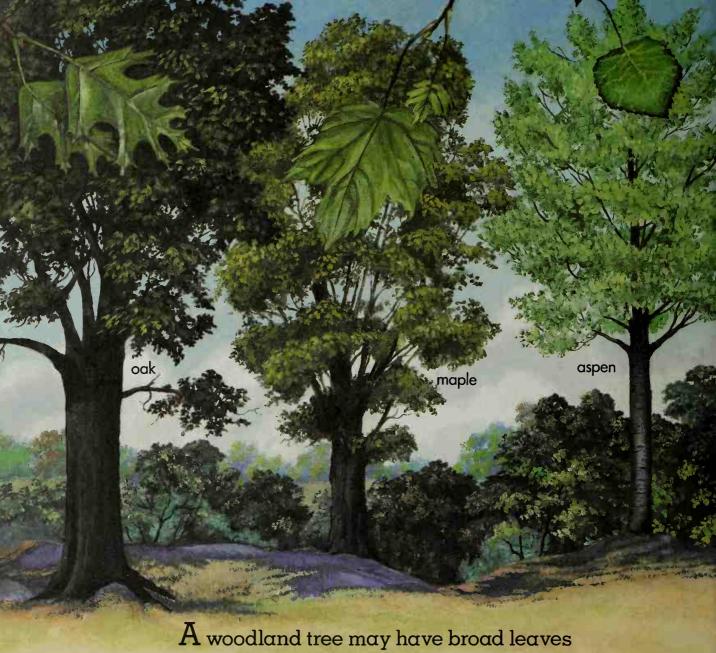
ROSE WYLER
PICTURES BY STEVEN JAMES PETRUCCIO





Trees and the Stories They Tell





A woodland tree may have broad leaves like the oak, maple, and aspen.
Or it may have needles for leaves, like the pine, spruce, and hemlock.
No matter what kind of tree it is, its seeds, buds, and wood tell its story.
They tell how it began and how it grew up to reach the sky.
They tell how it formed a trunk with branches and twigs and thousands of leaves.

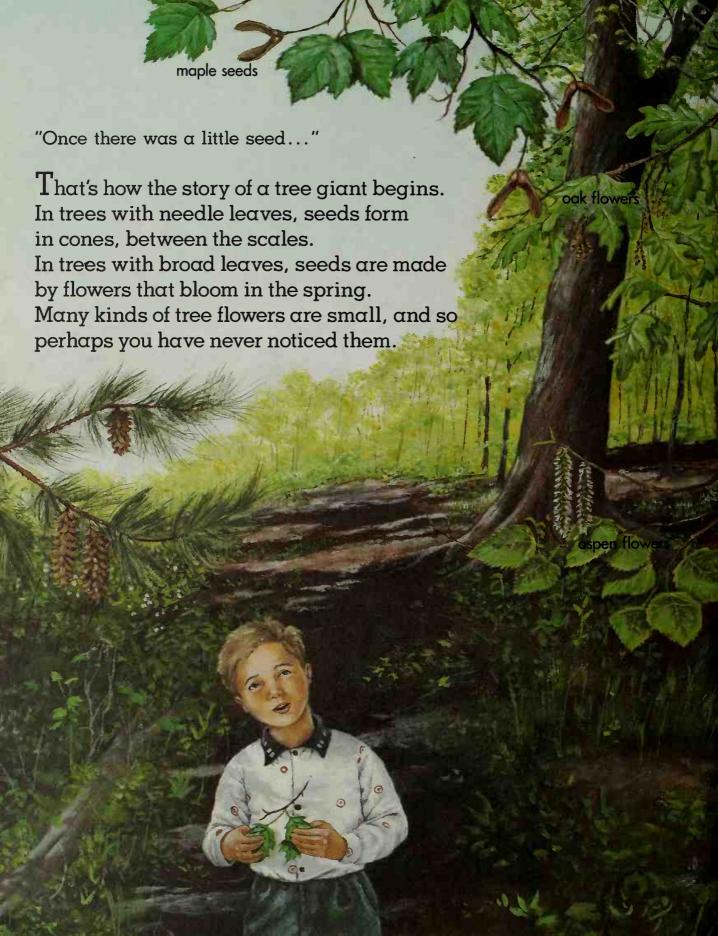


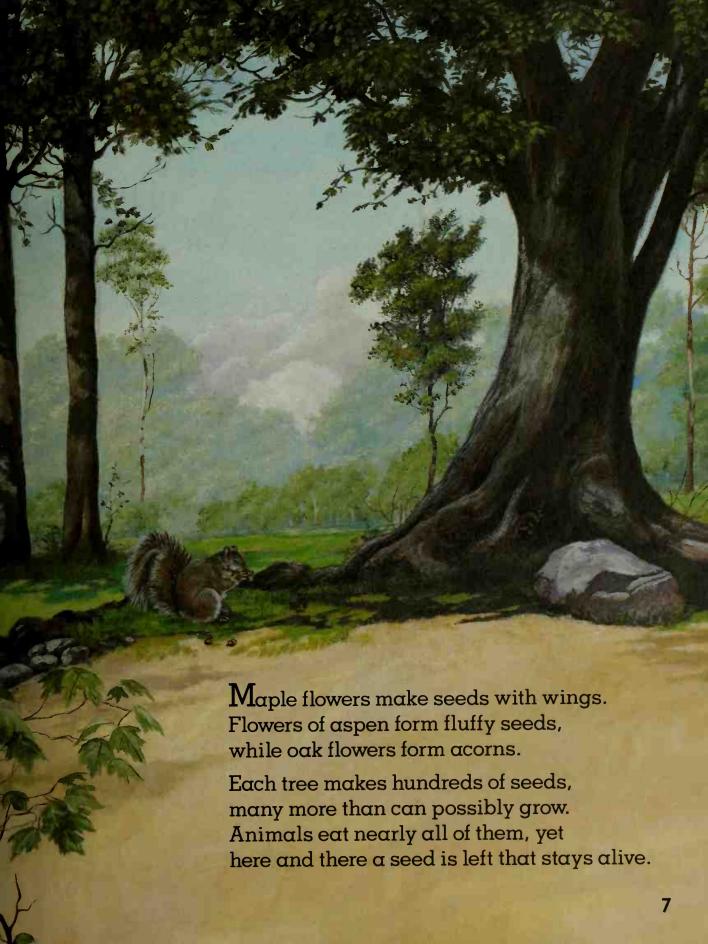
Tree stories are long for trees live long.

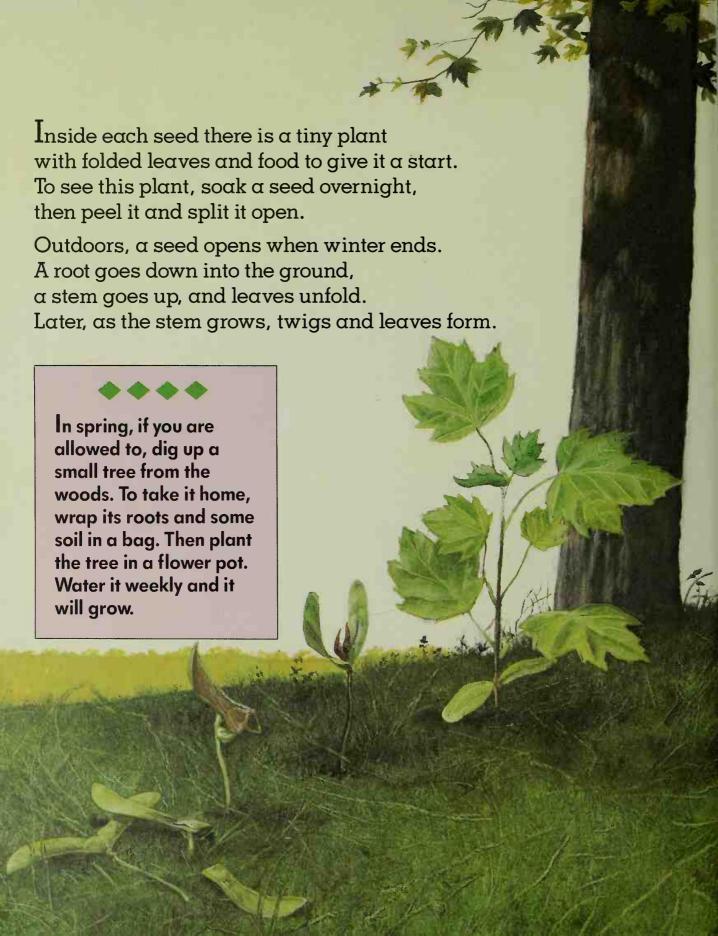
Most of the trees that you find in the woods are much older than you are.

Many are older than your parents, and older than your grandparents.

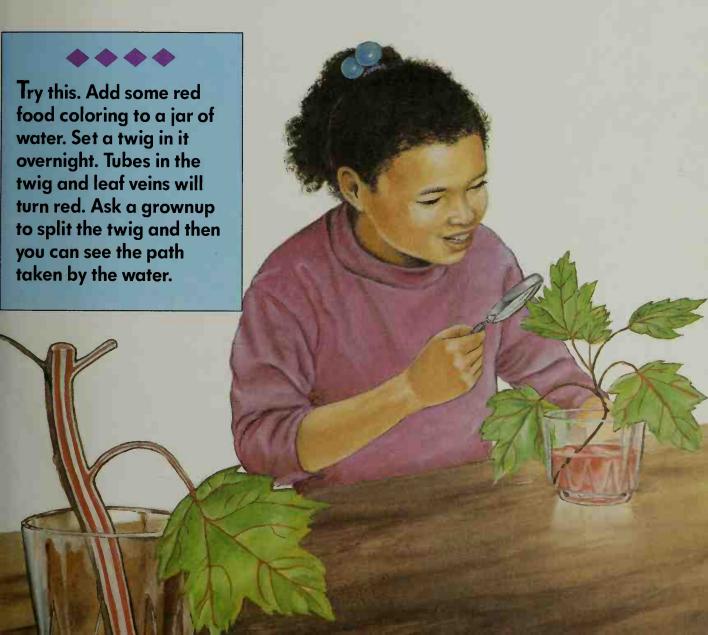
You may even find trees more than 100 years old!

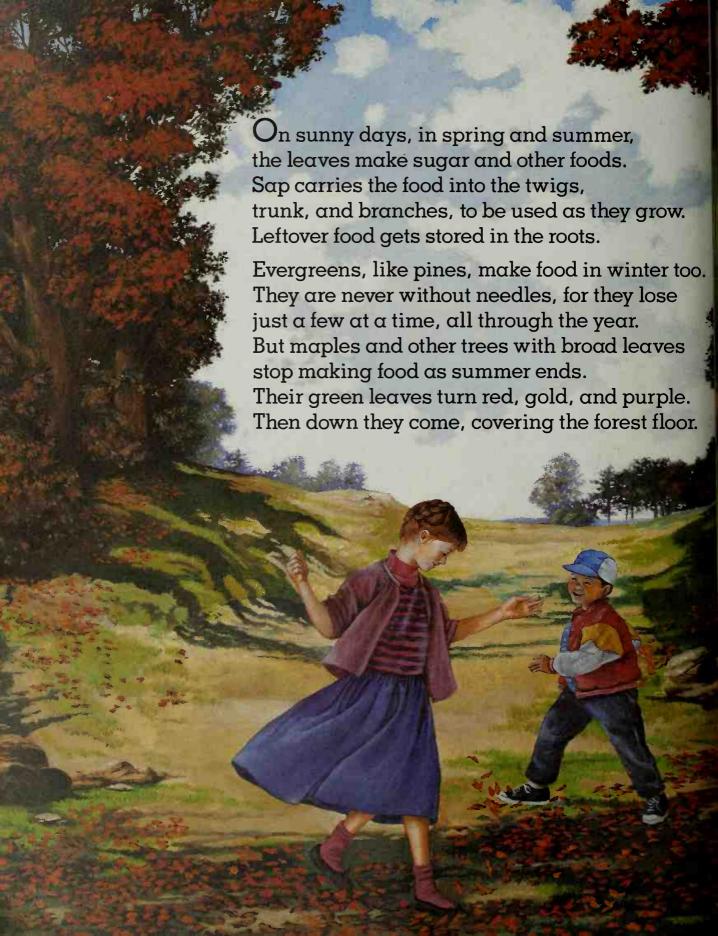


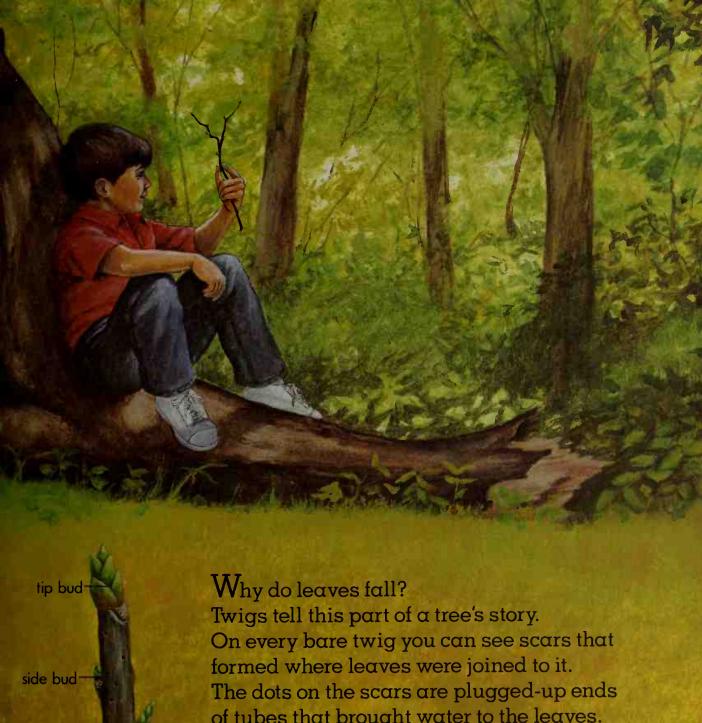




The little young tree now has a power greater than any fairy tale magic. It can make food from just air and water! Its roots take water from the soil, then the water goes up tubes in a layer under the bark. Veins carry the water into the leaves and there it is mixed with gas from the air to make food.



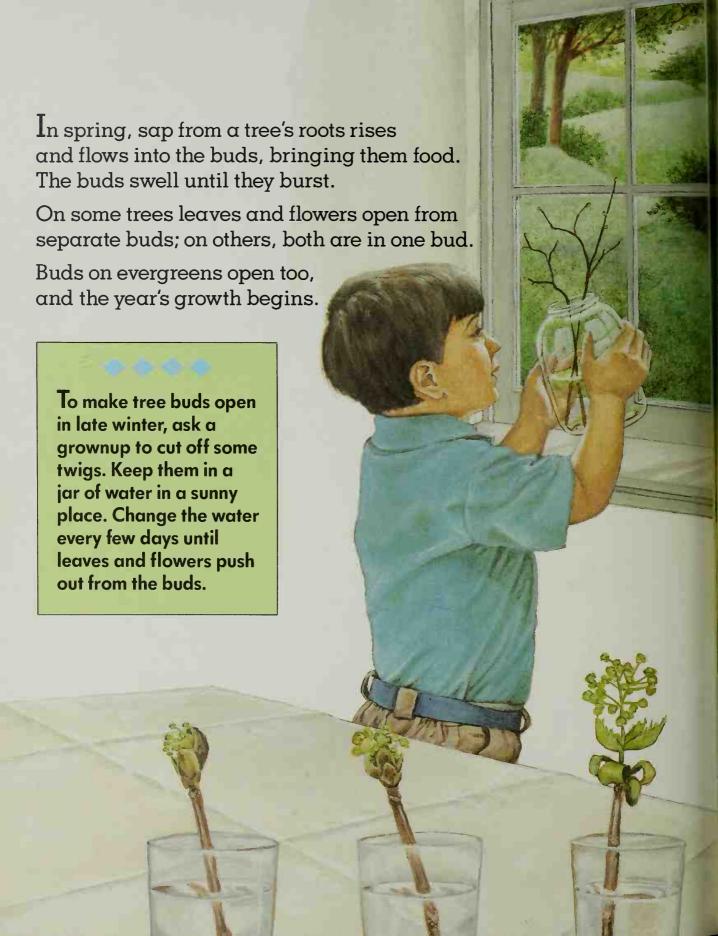


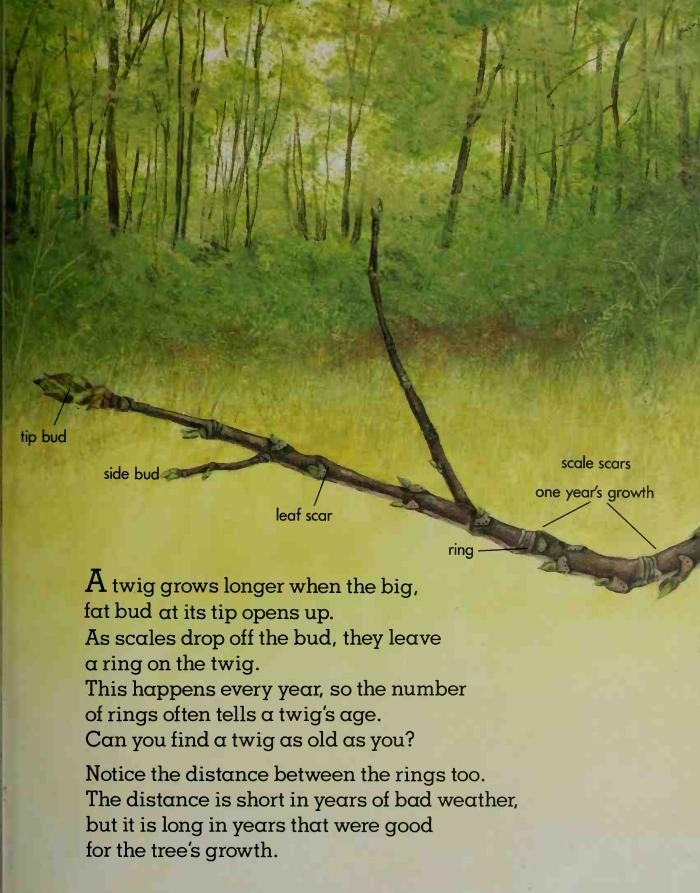


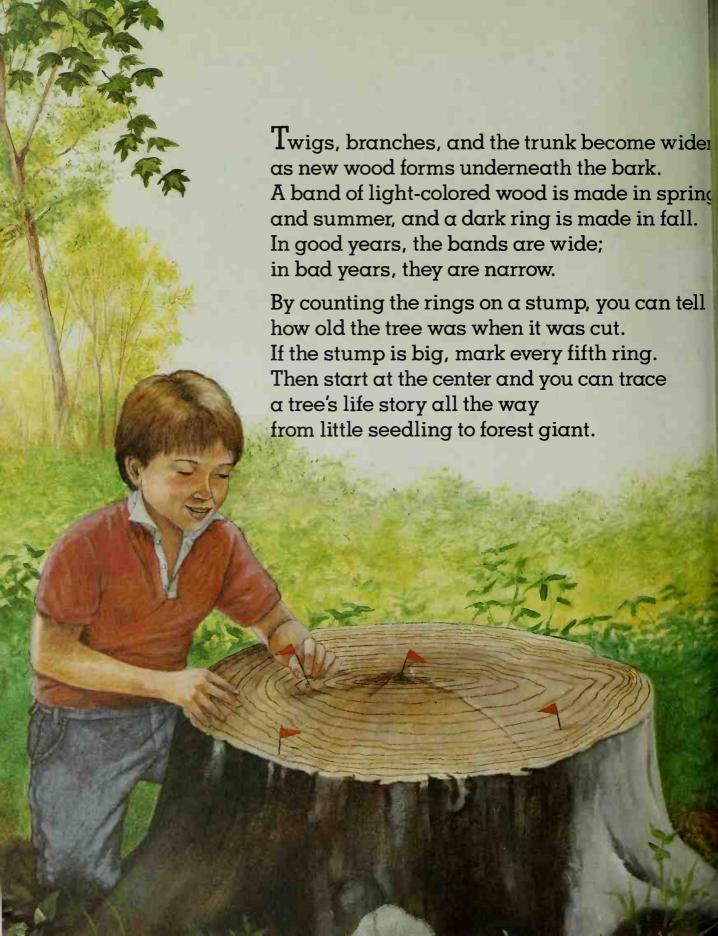
leaf scar

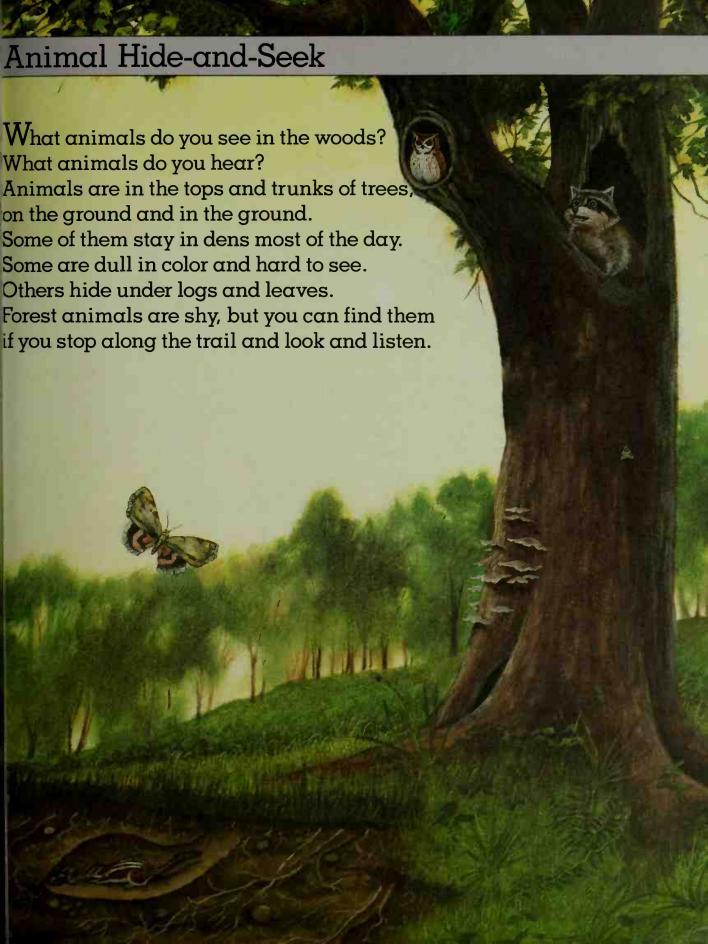
of tubes that brought water to the leaves. Without water, the leaves dried up and died. Then autumn winds blew them away.

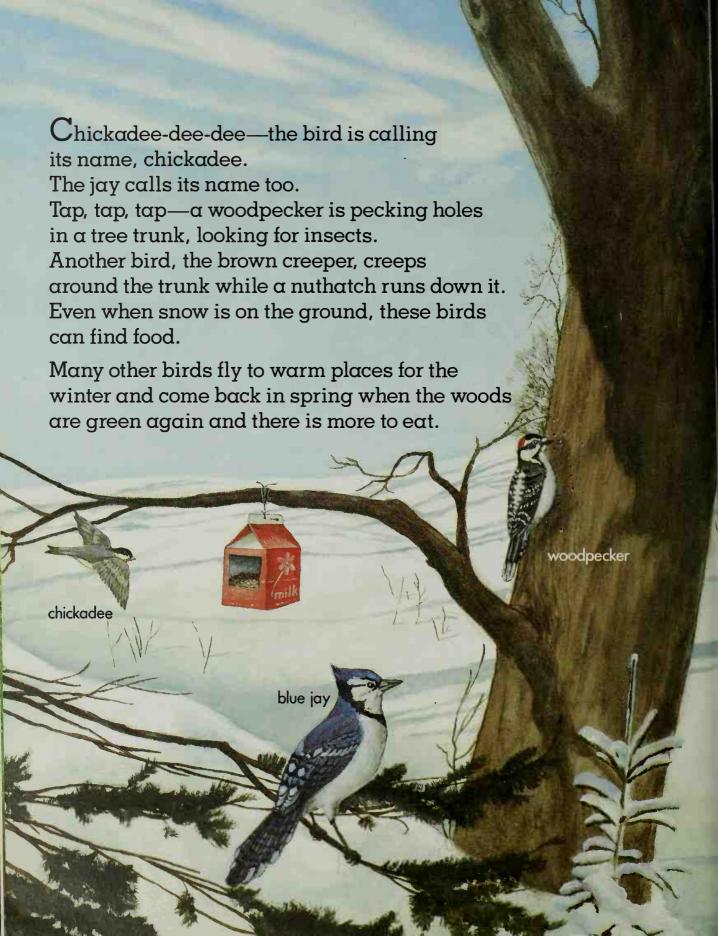
Even when a tree is bare, it still has leaves tiny ones that live through the winter in buds. Open some buds and you will see these leaves.

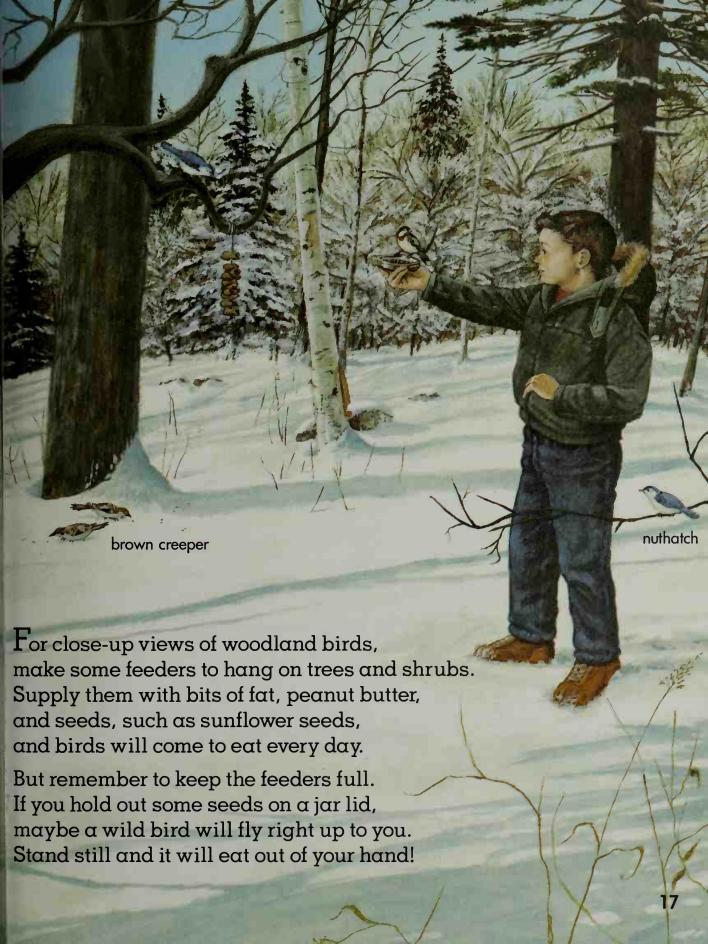


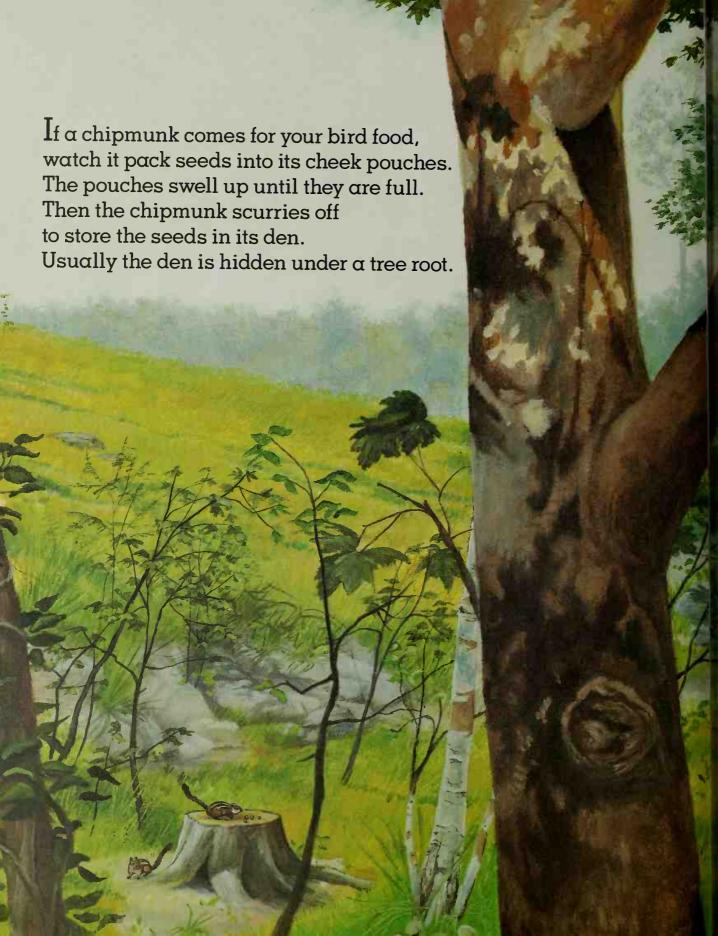


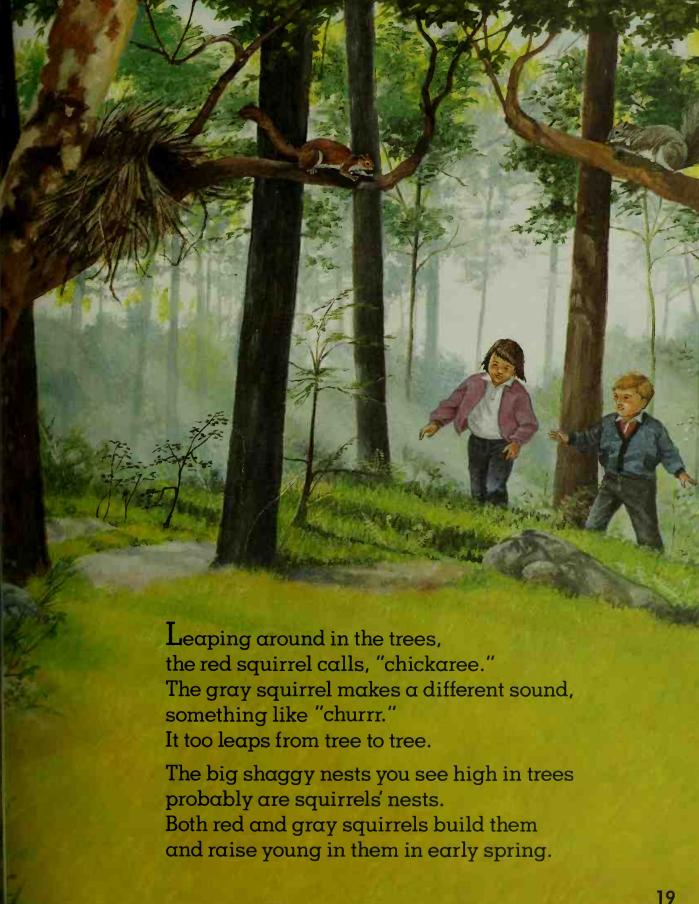


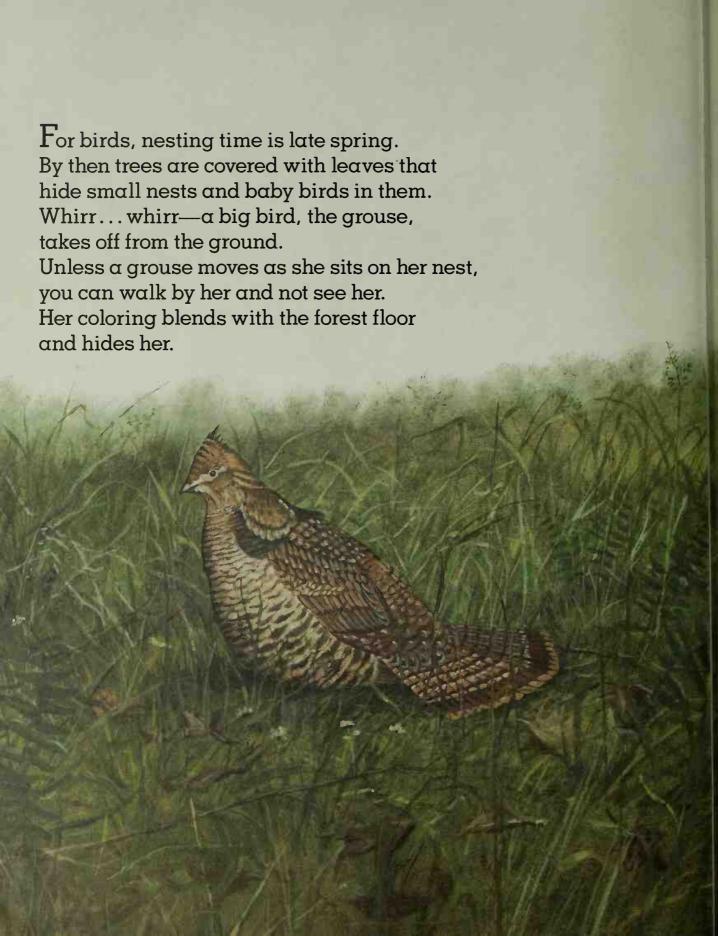


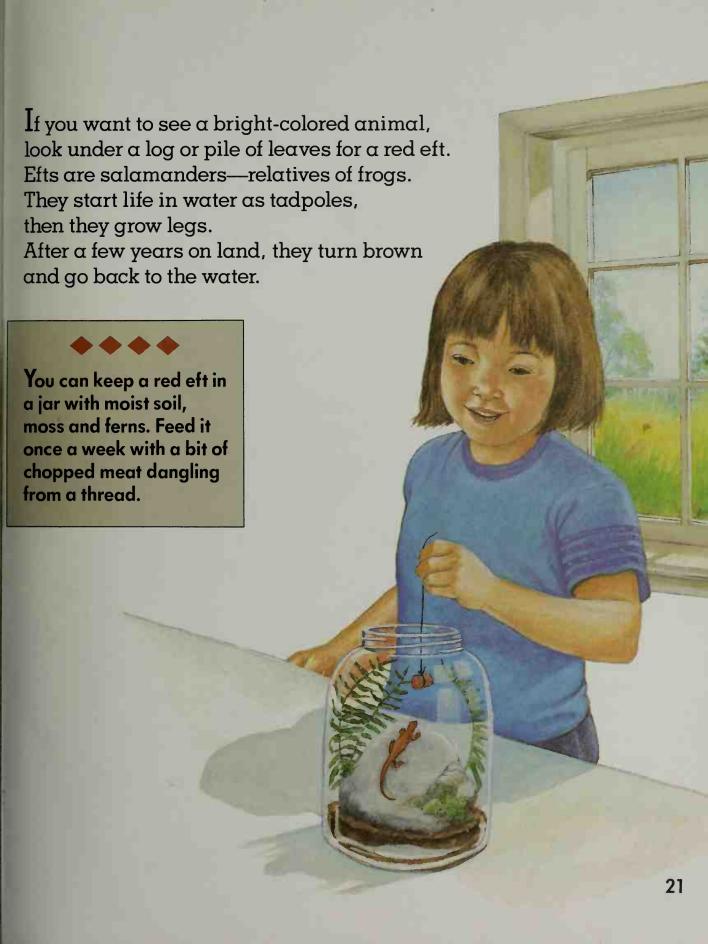




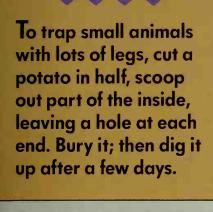


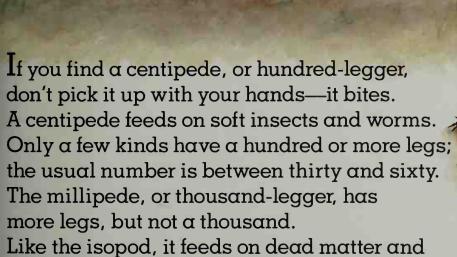












helps clear the ground for new living things.

The Forest Floor

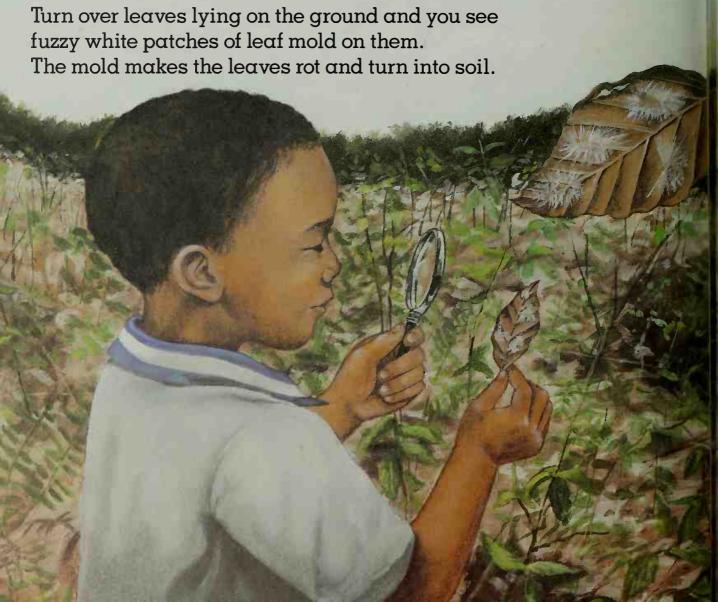
Every year millions and millions of leaves fall and litter the forest floor.

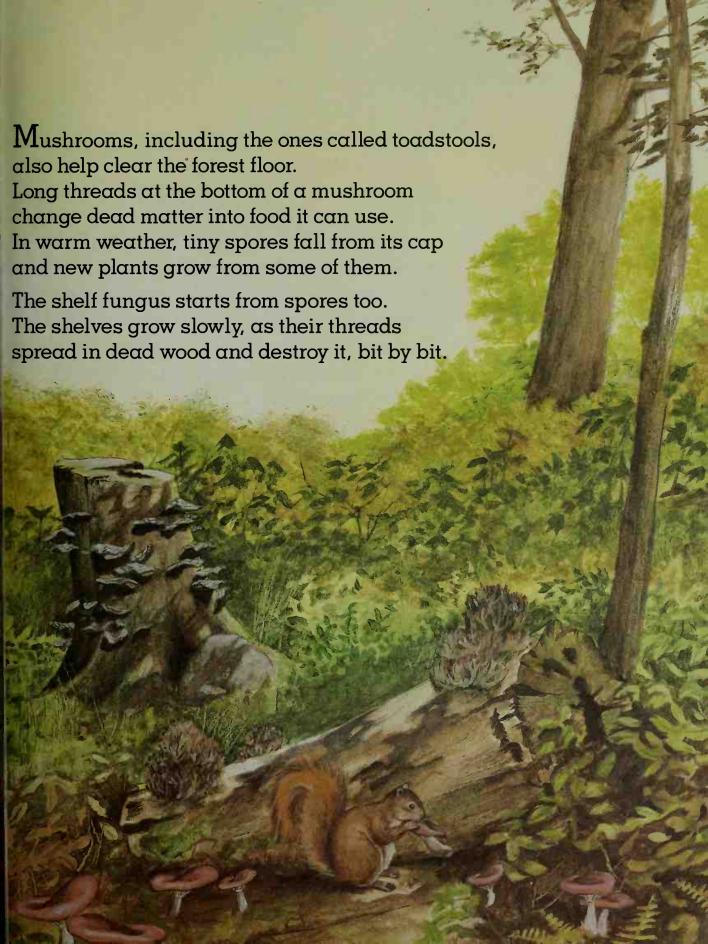
Over 250,000 may come from a single oak.

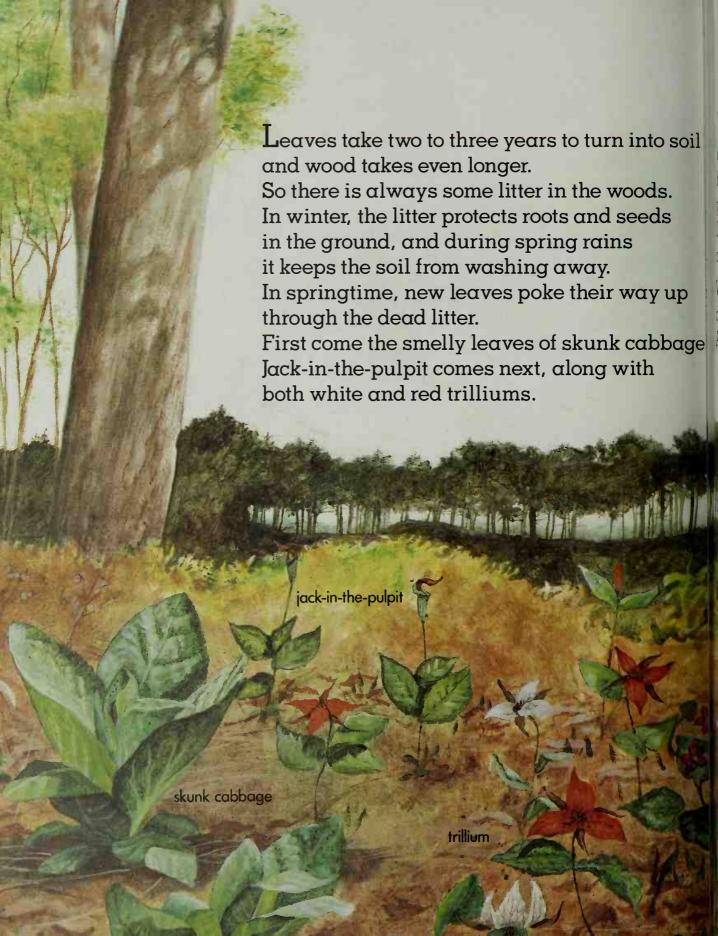
Though a pine keeps its needles two to four years, it sheds thousands of them yearly.

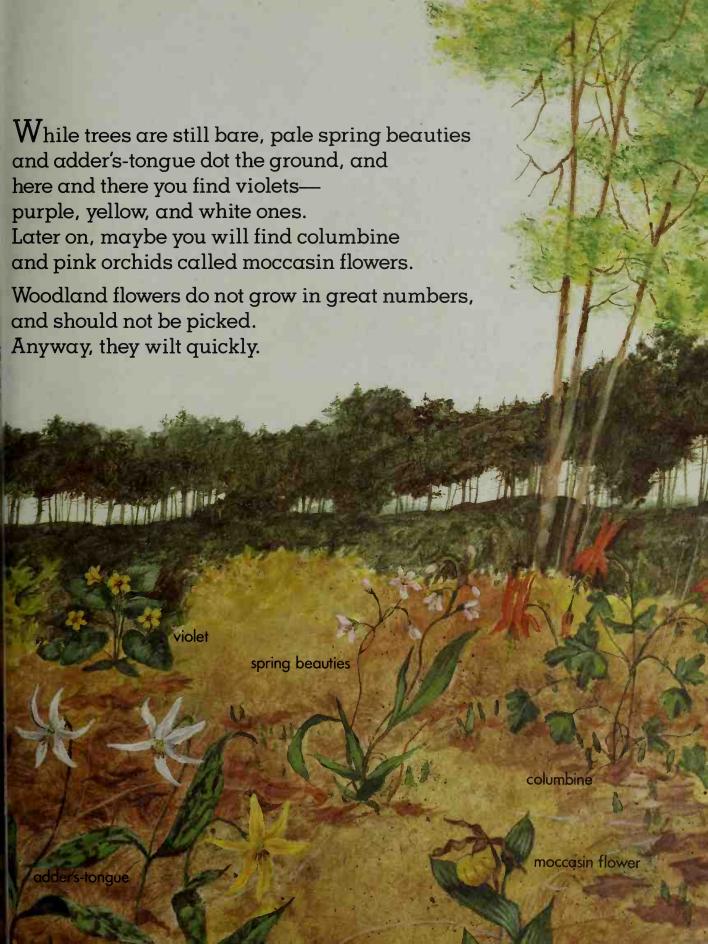
Yet this leafy litter does not pile up.

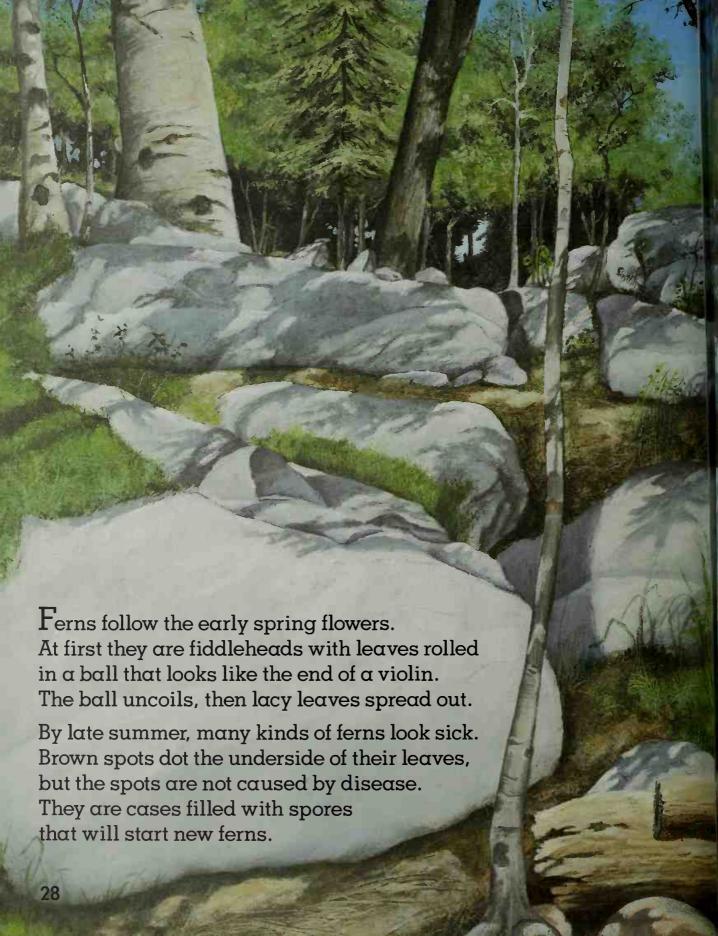
Some of it is eaten by animals, but most of it is destroyed by molds.

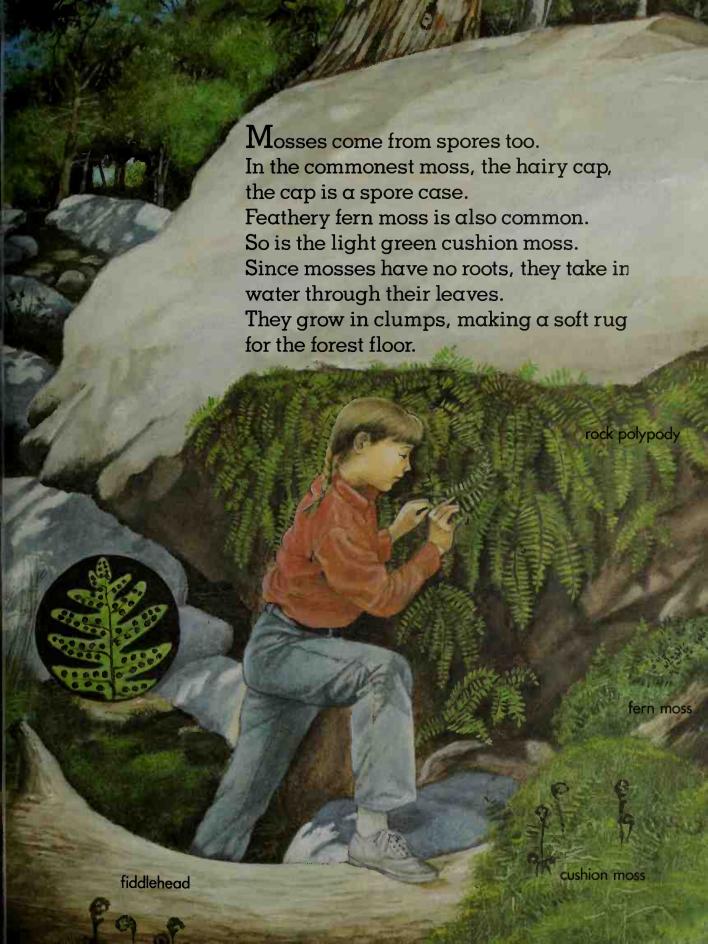












Even when the ground is covered with snow, mosses stay green.

Plant some in a jar with soil, keep them moist, and they will stay green all winter.

Two kinds of fern remain green too the rock polypody and the Christmas fern.

Both grow well indoors.

In fact, the Christmas fern is a popular house plant often sold in stores.



fern moss

pin cushion moss

An aquarium tank makes a good home for plants and small animals from the woods. First put some gravel on the bottom. Then add about an inch of clean sand. Cover the sand with forest soil and set the plants in it.

Polypody ferns, evergreen seedlings, and mosses will grow well if molding dead leaves are spread over the soil.

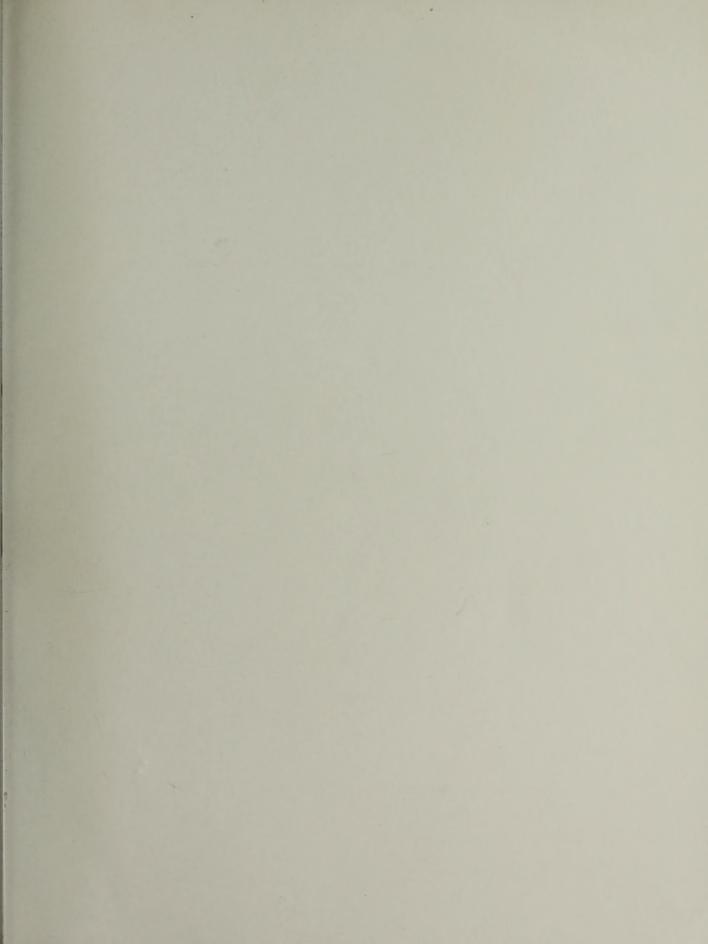
The leaves will provide food for pill bugs

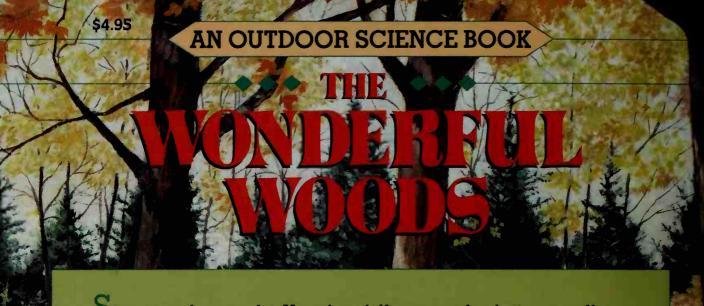
and millipedes, and the small insects on them

will be eaten by centipedes and red efts.



Be sure to keep your indoor garden moist. Then the plants and animals in it will live as they do outdoors in the wonderful woods.





Step into the woods. Your feet follow a path of pine needles, mosses, and lichens into the cool green quiet. But you're not alone! This beautiful book brings the woods alive, telling all about how trees live and grow. Meet all the creatures who appear if you're very quiet—the birds, chipmunks, squirrels, and deer. The simple activities will help you to learn what animals and plants live in the woods and how their lives are woven together in their woodland home.

Author Rose Wyler has taught elementary science, been on the faculty of Teachers College, Columbia University, and with her husband Gerald Ames, has written over fifty children's books, many of which have been translated into ten or more languages.

OUTDOOR SCIENCE BOOKS

The Starry Sky Grass and Grasshoppers
Raindrops and Rainbows Puddles and Ponds
The Wonderful Woods

